





Importance of the Delta to California

Water Supply

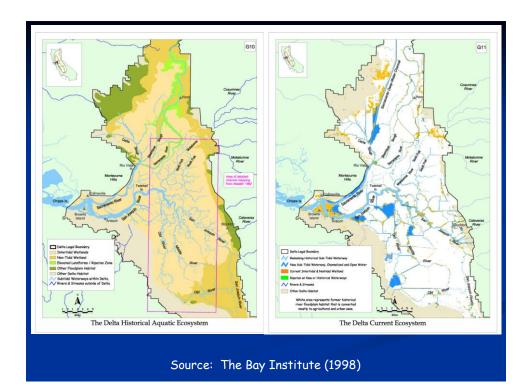
- •25 million Californians
- •3 million acres of agriculture
- •\$400 billion of annual economic activity

In-Delta Land Use

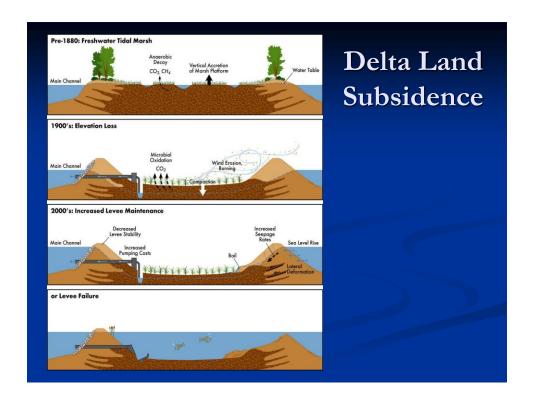
- •558,000 acres in agricultural production
- 64,000 acres of urban and commercial development

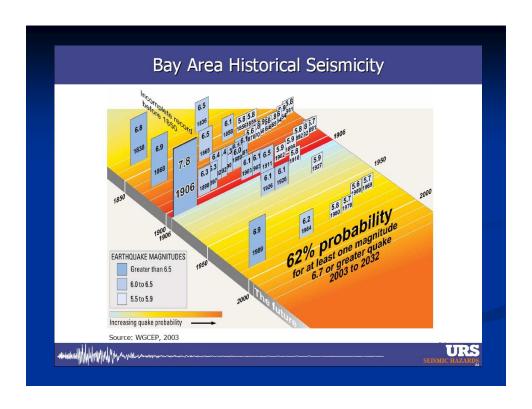
Environment

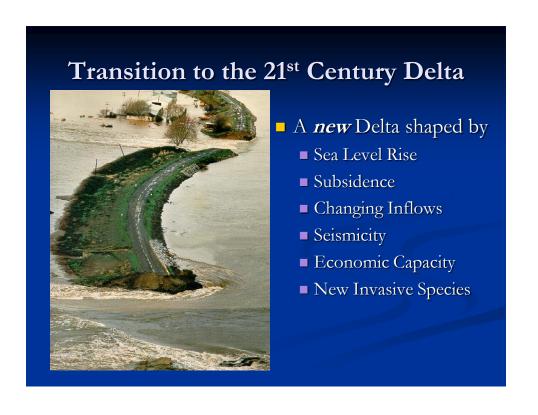
- •Confluence of California's two largest watersheds (Sacramento River and San Joaquin River)
- •More than 750 plant and animal species
- •More than 40 threatened or endangered species











History of California Water

- Gold Rush 1849
- CVP Authorized 1933
- SWP Bond 1960
- Peripheral Canal 1982 ballot measure defeated
- CVPIA 1992
- Bay Delta Accord 1995
- CALFED ROD 2000
- BDCP begun in 2006
- Delta Vision 2007
- State Delta Legislation 2009

1990 vs. 2010

- 8 to 10 million new residents
- Shift from row crops to permanent crops
- More stringent water quality standards
- Fish species continue decline
- New Biological Opinions
- Reduced flexibility in water operations



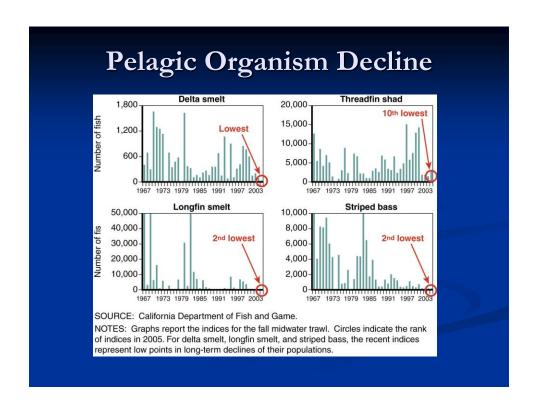


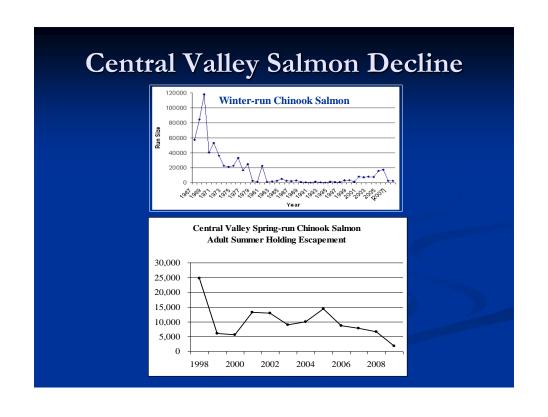
CALFED and **BDCP**

- The CALFED Bay Delta Program was developed by state and federal partners to address a broad range of actions.
- The BDCP is a Habitat Conservation Plan conducted under ESA and is primarily an applicant driven process.

Species Challenges

- Pelagic Organism Decline
- Central Valley Salmon Decline





Consultation Cycle

- First BiOp for winter-run Chinook 1992
- First delta smelt BiOp in 1995
- CVP/SWP BiOps 2004/2005
- Remanded by District Court 2007/2008
- CVP/SWP BiOps 2008/2009
- Continued Litigation

Bay Delta Conservation Plan

Importance to Long-term Solution

Comprehensive ecosystem approach provides best opportunities to recover fisheries and assure water supplies

Better separates water delivery system from the Delta estuary

Restores tens of thousands of acres of tidal marsh and flood plain habitat

Improves Delta flows through greater operational flexibility

Considers the many other stressors impacting fish populations – predation, invasive species, pesticides, toxins

Provides a framework to implement the plan over time

Bay Delta Conservation Plan

- Initiated in 2006
- Co-equal goals of more reliable water supply and restore Delta ecosystem
 - > Habitat Conservation Plan
 - > Natural Community Conservation Plan
- Ongoing preparation of a joint EIR/EIS

BDCP Covered Activities

- Incidental take associated with near and long term water operations
- Construction of new facilities to allow for more environmentally benign long term water operations
- Implementation of mitigation and conservation actions

Parties and Roles

- Steering Committee
- Regulatory/Approving Agencies
- NEPA and CEQA Leads
- Cooperating Agencies
- Other Interests

BDCP Steering Committee

Federal and State Agencies

California Department of Water Resources

California Resources Agency

State Water Resources Control Board

Bureau of Reclamation

U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

California Department of Fish & Game

National Marine Fisheries Service

Non-Governmental Organizations

American Rivers

Defenders of Wildlife

Environmental Defense Fund

Natural Heritage Institute

The Bay Institute

The Nature Conservancy

California Farm Bureau Federation

Water Agencies

Santa Clara Valley Water District

Kern County Water Agency

Metropolitan Water District of Southern

California

San Luis & Delta Mendota Water Authority

Westlands Water District

Zone 7 Water Agency

Contra Costa Water District

Friant Water Users

Mirant Energy

NEPA / CEQA Lead Agencies

USFWS

- DWR
- Reclamation
- NOAA Fisheries

Cooperating / Responsible Agencies

USACE

SWRCB

■ EPA

- DFG
- Water Users JPA
- Delta Stewardship Council

Other Interests

- Delta Counties
- Levee Districts
- Conservation Districts
- In-Delta Water Districts
- Land Owners
- Fishing Interests

BDCP Goal - Issuance of Permits

- Endangered Species Act §10(a)(1)(B)
 - Issuance of a permit to non-federal entities for take of federally listed species, based on the development of an adequate HCP
 - Permits would be issued by both USFWS and NMFS
- California Natural Community Conservation Planning Act
 - Issuance of a permit to non-federal entities for take of state listed species, based on the development of an adequate Natural Community Conservation Plan (NCCP)
 - Permit would be issued by the California Department of Fish and Game (DFG)

BDCP - Non-Federal Entity Coverage under ESA

- Take Authorization Provided by §10 Permit
- No Prohibition on Issuance of a §10 Permit Notwithstanding the Existence of a Related Discretionary Federal Action
- Provides "No Surprises" Assurances to Permittee
 - No obligation for additional resources in event of changed or unforeseen circumstances without consent of permitee
- Permit may be suspended or revoked if continued actions under the permit would jeopardize listed species

BDCP – Federal Agency Coverage under ESA

- Consultation Under §7(a)(2) of the ESA
 - Results in Issuance of a Biological Opinion (BiOp) with Incidental Take Statement (ITS)
 - Federal Agencies Do Not Receive "No Surprises" Assurances
- Most or All Covered Activities Have Associated
 Discretionary Federal Action, Independent of HCP and §10 permit

BDCP Discretionary Federal Actions

- **USBR** long term operation and maintenance of the Central Valley Project
- **USFWS and NMFS** must engage in intra-service §7 consultation for §10 permit
- USACE for permits under River and Harbor Act §§10 and 14 and CWA §404
- **USEPA**, potentially, for ratification of any changes in the Water Quality Control Plan for the Bay-Delta that the State Water Resources Control Board may make in response to the BDCP
- **FEMA**, potentially for changes in 100-year flood plain associated with new conveyance facility

BDCP - Other HCP/NCCP Considerations

- Near Term CVP/SWP Operations
 - Resolution of description complicated by ongoing litigation
- Long Term CVP/SWP Operations

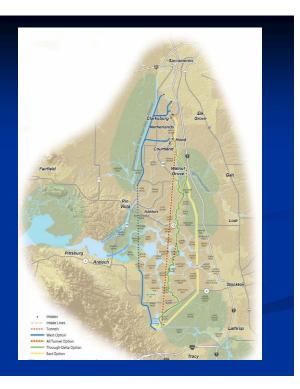
Resolution complicated by:

- Lack of decision on applicant preferred form of conveyance
- New state statutory requirement to evaluate reduced reliance on the Delta
- Fifty Year Permit Term
 - Challenges related to Changed Circumstances and Unforeseen Circumstances
 - Challenges related to developing defensible biological opinion
 - Robust Engagement in Adaptive Management Program and compliance monitoring by Services

BDCP Outline 3.1 Introduction Chapter 1. Introduction Biological Goals and Chapter 2. Existing Ecological Objectives Conditions 3.3 Approach to **Chapter 3. Conservation Strategy** Conservation: Overview **Chapter 4.** Description of Covered of Key Conservation Activities Measures and Their **Chapter 5.** Assessment of Impacts Integration and Level of Take 3.4 Conservation Measures **Chapter 6.** Plan Implementation Chapter 7. Implementation 3.5 Monitoring Plan Structure Adaptive Management Chapter 8. Implementation Costs Program and Funding Sources 3.7 Summary of the Chapter 9. Alternatives Considered Approach to and Rejected Minimization and Chapter 10. Independent Science Mitigation of Effects **Advisory Process** 3.8 Summary of Expected Chapter 11. List of Preparers **Outcomes for Covered** Chapter 12. References **Species and Natural** Communities

Conservation Measures Conveyance/Operations Habitat Restoration Tidal Marsh Floodplain Inundation Channel Margin Habitat Other Stressors (limited authority to address)

- Water
 Conveyance
 Alternatives
- HabitatRestorationAreas



Role of Science

- NAS/NRC Committee on the Delta
- Delta Science Program
- Delta Stewardship Council's Independent Science Board
- Interior/Commerce Task Force Effort
 - Near-term Science Strategy
 - Integrated BDCP BiOp Strategy

Process for Completing – Timeline

- Draft BDCP in November 2010
- Public Draft EIS/EIR in 2011
- Biological Assessment / Biological Opinions in 2012
- ROD, Permit Issuance in 2012
- Begin Implementation in 2012
- Complete Conveyance in 2020 (est.)

2009 State Legislation

- Delta Stewardship Council
 - Early actions
 - Delta Plan (to consider BDCP)
- Delta Conservancy
 - Identified federal role
- Requirements for BDCP
- State Bond Initiative in November 2010

2010 Water Bond: \$11.4B

- Drought Relief \$455M
- Water Supply Reliability (12 regions)- \$1.4B
- Delta Sustainability \$2.2B
- Water System Improvement (Storage) \$3.0B
- Conservation and Watershed Protection \$1.79B
- Groundwater Management \$1.0 B
- Recycling and Conservation -\$1.25B



Near-term Water Operations

- **Near Term** Period from issuance of permits to operation of the conveyance facility.
- Options:
 - (1) Include in the BDCP (Section 7 and 10)
 - (2) Address through Section 7 only
- Current requirements of the existing BiOps would continue unless new actions or new science provides a basis for modifying.

Role of the Federal Government

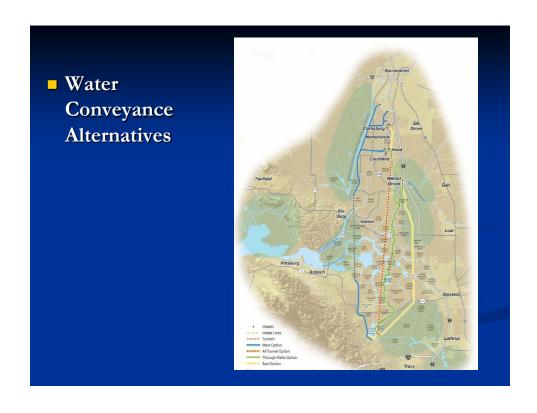
- Governance Structure
 - Program Implementation
 - Habitat Restoration
 - Water Operations
 - Inter-agency Annual Review
 - Real-time Operations
- Funding Structure
- Implementing Authorities of Federal Agencies (USACE, FWS, NMFS, Reclamation)
- Conveyance Ownership vs. Wheeling Agreement

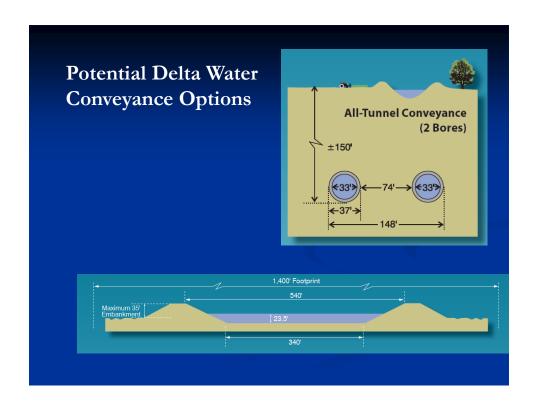
Managing Expectations

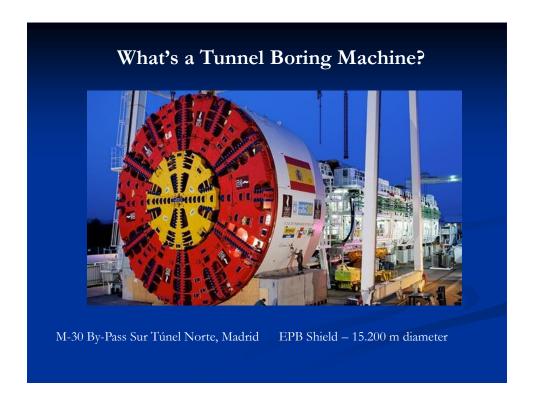
- Action-based/Outcome-based Strategy
- Adaptive Management and Monitoring
- Changed Circumstances, Unforeseen Circumstances
- Section 10 Assurances
- Approach to Other Stressors

Conveyance Alternatives

- Array of Potential Alternatives
- Capacity and Phasing
- Analysis of Effects







Next Steps

- Multiple Fronts
 - NAS Reviews
 - Interior/Commerce Task Force
 - Inter-agency Annual Review
 - On-going Litigation
- Further Progress